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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Krzysztof Kucharczyk
Title: MULTITEMPERATURE SINGLE STRAND CONFORMATION
POLYMORPHISM (MSSCP)

Docket No.: 1843.002US1
Filed: August 7, 2003
Examiner: Unknown

Serial No.: 10/636,053
Due Date: N/A
Group Art Unit: 1645

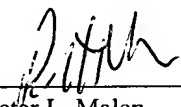
MS Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

We are transmitting herewith the following attached items (as indicated with an "X"):


- ☒ A return postcard.
- ☒ An Information Disclosure Statement (2 pgs.), Form 1449 (2 pgs.), and copies of 27 cited documents.

If not provided for in a separate paper filed herewith, Please consider this a PETITION FOR EXTENSION OF TIME for sufficient number of months to enter these papers and please charge any additional fees or credit overpayment to Deposit Account No. 19-0743.

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.
Customer Number 21186

By: 
Atty: Peter L. Malen
Reg. No. 44,894

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 29th day of December, 2004.


Name


Signature

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.
(GENERAL)

S/N 10/636,053

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Krzysztof Kucharczyk	Examiner:	Unknown
Serial No.:	10/636,053	Group Art Unit:	1645
Filed:	August 07, 2003	Docket:	1843.002US1
Title:	MULTITEMPERATURE SINGLE STRAND CONFORMATION POLYMORPHISM (MSSCP)		

INFORMATION DISCLOSURE STATEMENT

MS Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In compliance with 37 C.F.R. § 1.56, and in accordance with 37 C.F.R. §§ 1.97 *et. seq.*, the enclosed materials are brought to the attention of the Examiner for consideration in connection with the above-identified patent application. Applicant respectfully requests that this Information Disclosure Statement be entered and the documents listed on the attached Form 1449 be considered by the Examiner and made of record. Pursuant to MPEP 609, Applicant requests that a copy of the Form 1449, initialed as being considered by the Examiner, be returned to the Applicant with the next official communication.

Pursuant to 37 C.F.R. § 1.97(b), it is believed that no fee or statement is required with the Information Disclosure Statement. However, if an Office Action on the merits has been mailed, the Commissioner is hereby authorized to charge the required fees to Deposit Account No. 19-0743 in order to have this Information Disclosure Statement considered.

INFORMATION DISCLOSURE STATEMENT

Serial No :10:636,053

Filing Date: August 07, 2003

Title: MULTITEMPERATURE SINGLE STRAND CONFORMATION POLYMORPHISM (MSSCP)

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Dkt: 1843.002US1

The present application is a U.S. national patent application filed after June 30, 2003. Thus, Applicant believes that the U.S. Patent & Trademark Office has waived the requirement under 37 C.F.R. 1.98 (a)(2)(i) for submitting a copy of each cited U.S. patent and each U.S. patent application publication. The waiver is provided in a pre-OG notice from the U.S. Patent & Trademark Office entitled "Information Disclosure Statements May Be Filed Without Copies of U.S. Patents and Published Applications in Patent Applications filed after June 30, 2003" and dated July 11, 2003. Applicant acknowledges the requirement to submit copies of foreign patent documents and non-patent literature in accordance with 37 C.F.R. 1.98(a)(2).

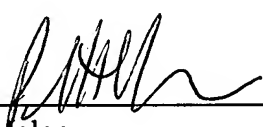
The Examiner is invited to contact the Applicant's Representative at the below-listed telephone number if there are any questions regarding this communication.

Respectfully submitted,
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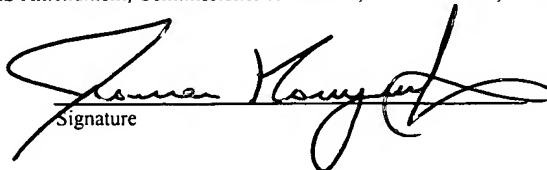
Date December 29, 2004

By


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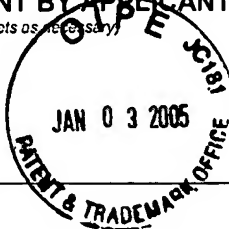
JAMES KAUYUSIK
Name


Signature

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)



Complete if Known

Application Number	10/636,053
Filing Date	August 7, 2003
First Named Inventor	Kucharczyk, Krzysztof
Group Art Unit	1645
Examiner Name	Unknown

Sheet 1 of 2

Attorney Docket No: 1843.002US1

US PATENT DOCUMENTS

Examiner Initial *	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	Filing Date If Appropriate
	2003/0077631	04/24/2003	Kucharczyk	435	6	08/06/2002
	4,683,195	07/28/1987	Mullis et al.	435	6	02/07/1986
	4,683,202	07/28/1987	Mullis	435	91	10/25/1985
	5,582,989	12/10/1996	Caskey	435	6	09/30/1994
	5,633,134	05/27/1997	Shuber	435	6	09/19/1994
	5,719,028	02/17/1998	Dahlberg et al.	435	6	02/06/1997
	5,858,659	01/12/1999	Sapolsky et al.	435	6	11/29/1995
	5,958,692	09/28/1999	Cotton et al.	435	6	09/02/1997
	6,287,822	09/11/2001	Gjerde et al.	435	91.2	08/04/1998

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	T ²
	WO 98/12355	03/26/1998				
	WO 98/14616	04/09/1998				
	WO 00/20853	04/13/2000				
	WO 00/50869	08/31/2000				
	WO 00/61805	10/19/2000				

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		"DNA Folding Form", http://web.archive.org/web/20020601154202/bioinfo.math.rpi.edu/~mfold/dna/ , (Archived June 1, 2002), 3 pages.	
		"PCT International Search Report from International Application No. PCT/PL 01/00012", 4 pgs. (2001).	
		ABRAMS et al., "Comprehensive detection of single base changes in human genomic DNA using denaturing gradient gel electrophoresis and a GC clamp", <i>Genomics</i> , 7, 463-75 (1990).	
		BARANY, "Genetic disease detection and DNA amplification using cloned thermostable ligase", <i>PNAS</i> , 88, 189-193 (1991).	
		CHEN, "High resolution SSCP by optimization of the temperature by transverse TGGE", <i>Nucleic Acids Research</i> , 23, 4524-25 (1995).	
		COLLINS et al., "Genetic epidemiology of single-nucleotide polymorphisms", <i>PNAS</i> , 96, 15173-15177 (1999).	
		GLAVAC et al., "Optimization of the single-strand conformation polymorphism (SSCP) technique for detection of point mutations", <i>Human Mutation</i> , 2, 404-414 (1993).	

EXAMINER

DATE CONSIDERED

Substitute Disclosure Statement Form (PTO-1449)

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional) 2 Applicant is to place a check mark here if English language Translation is attached

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="padding: 2px;"><i>Complete if Known</i></td> </tr> <tr> <td style="width: 60%; padding: 2px;">Application Number</td> <td style="padding: 2px;">10/636,053</td> </tr> <tr> <td style="padding: 2px;">Filing Date</td> <td style="padding: 2px;">August 7, 2003</td> </tr> <tr> <td style="padding: 2px;">First Named Inventor</td> <td style="padding: 2px;">Kucharczyk, Krzysztof</td> </tr> <tr> <td style="padding: 2px;">Group Art Unit</td> <td style="padding: 2px;">1645</td> </tr> <tr> <td style="padding: 2px;">Examiner Name</td> <td style="padding: 2px;">Unknown</td> </tr> </table>	<i>Complete if Known</i>		Application Number	10/636,053	Filing Date	August 7, 2003	First Named Inventor	Kucharczyk, Krzysztof	Group Art Unit	1645	Examiner Name	Unknown
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Examiner Name	Unknown												
Sheet 2 of 2	Attorney Docket No: 1843.002US1												

		GRACE et al., "Transverse temperature-gradient single-strand conformation polymorphism analysis for temperature optimization of Cold-SSCP mutation detection", <u>Nucleic Acids Research</u> , 23 , 4224-4226 (1995).	
		GUATELLI, "Isothermal, in vitro amplification of nucleic acids by a multienzyme reaction modeled after retroviral replication", <u>PNAS</u> , 87 , 1874-1878 (1990).	
		HAYASHI et al., "How sensitive is PCR-SSCP?", <u>Human Mutation</u> , 2 , 338-346 (1993).	
		HUUSKO et al., "Germ-Line TP53 Mutations in Finnish Cancer Families Exhibiting Features of the Li-Fraumeni Syndrome and Negative for BRCA1 and BRCA2", <u>Cancer Genetics and Cytogenetics</u> , 112 , 9-14 (1999).	
		KIYAMA et al., "High-throughput asymmetric-PCR SSCP analysis using well-controlled temperature conditions", <u>BioTechniques</u> , 21 , 710-716 (1996).	
		LERMAN et al., "Computational simulation of DNA melting and its application to denaturing gradient gel electrophoresis", <u>Methods in Enzymology</u> , 155 , 482-501 (1987).	
		LIU et al., "Parameters Affecting the Sensitivities of Dideoxy Fingerprinting and SSCP", <u>PCR Methods and Applications</u> , 4 , 97-108 (1994).	
		ORITA et al., "Rapid and sensitive detection of point mutations and DNA polymorphisms using the polymerase chain reaction", <u>Genomics</u> , 5 , 874-879 (1989).	
		ROSS et al., "Discrimination of single-nucleotide polymorphisms in human DNA using peptide nucleic acid probes detected by MALDI-TOF mass spectrometry", <u>Analytical Chemistry</u> , 69 , 4197-4202 (1997).	
		RUBBEN et al., "Evaluation of non-radioactive temperature gradient SSCP analysis and of temperature gradient gel electrophoresis for the detection of HpV 6-variants in condylomata acuminata and Buschke-Loewenstein tumours", <u>European Journal of Epidemiology</u> , 11 , 501-506 (1995).	
		SANTALUCIA JR., "A unified view of polymer, dumbbell, and oligonucleotide DNA nearest-neighbor thermodynamics", <u>PNAS</u> , 95 , 1460-1465 (1998).	
		SHEFFIELD, "Attachment of a 40-base-pair G + C-rich sequence (GC-clamp) to genomic DNA fragments by the polymerase chain reaction results in improved detection of single-base changes", <u>PNAS</u> , 86 , 232-236 (1989).	
		SUGANO et al., "Detection of K-ras and p53-mutations by temperature gradient single-strand conformation polymorphism (TG-SSCP) analysis", <u>Proceedings of the American Association for Cancer Research Annual Meeting</u> , 37 , 598, Abstract 4106, (1996).	
		URDEA et al., "A novel method for the rapid detection of specific nucleotide sequences in crude biological samples without blotting or radioactivity; application to the analysis of hepatitis B virus in human serum", <u>Gene</u> , 61 , 253-264 (1987).	
		WARTELL et al., "Detecting base pair substitutions in DNA fragments by temperature-gradient gel electrophoresis", <u>Nucleic Acids Research</u> , 18 , 2699-705 (1990).	

EXAMINER

DATE CONSIDERED